

AMENDMENTS TO THE SPECIFICATION

Please replace paragraph 58 of the as-filed specification with the following paragraph:

[0058] A problem occurs when sensing the position of the manipulandum with the sensors of the force feedback device having such compliance. If the sensors are directly coupled to moving members of the force feedback mechanism close to the manipulandum, then the compliance may not add significantly to the inaccuracies of sensing the manipulandum position. However, if the sensor is coupled to the actuator to sense the rotation of the actuator shaft as an indication of manipulandum position, as provided in the embodiment 32 described above, then the compliance in the system can add significant inaccuracies to the position sensing. This is because the compliance in such a system exists between the sensor and the manipulandum and causes the manipulandum to be at a different position than the sensed actuator shaft that is coupled to the manipulandum. For example, the actuator may output a vibration on the manipulandum; the sensor would sense the actuator shaft rotating alternatingly in two directions at a particular frequency. However, the compliance in the transmission system may "absorb" the vibration forces such that the manipulandum does not actually move in physical space at all. The sensor would thus be sensing motion when no motion of the manipulandum actually occurs.